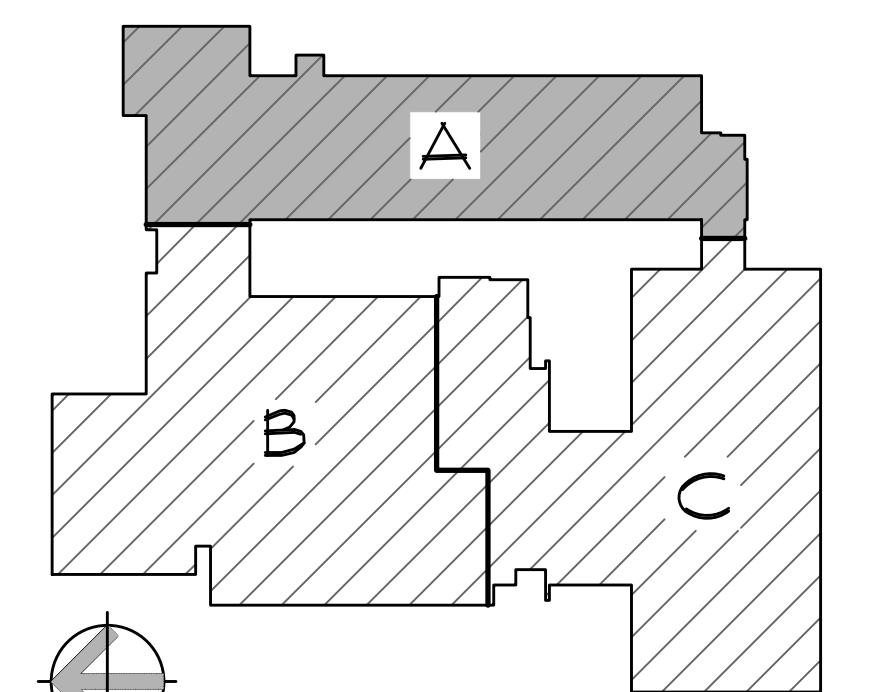


1ST FLOOR FIRE PROTECTION PLAN, AREA "A"

SCALE: 1/8" = 1'-0"

1
FP101



KEY PLAN
NOT TO SCALE

Project Title:

Expansion and Renovate as New Project - PHASE 1 of 3

Crystal Lake Elementary School

284 Sandy Beach Road
Ellington, Connecticut 06029



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Revision: Description: Date: Revised By:

-- ISSUED FOR BIDDING NOV. 26, 2013 --

Drawing Title:

1ST FLOOR
FIRE PROTECTION PLAN,
AREA "A"
State Project Number: 048-0058 EA/RR/PS

Date: Drawing Number:

JUNE 18, 2013

Scale:

AS NOTED

Drawn By:

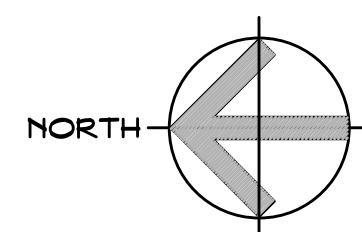
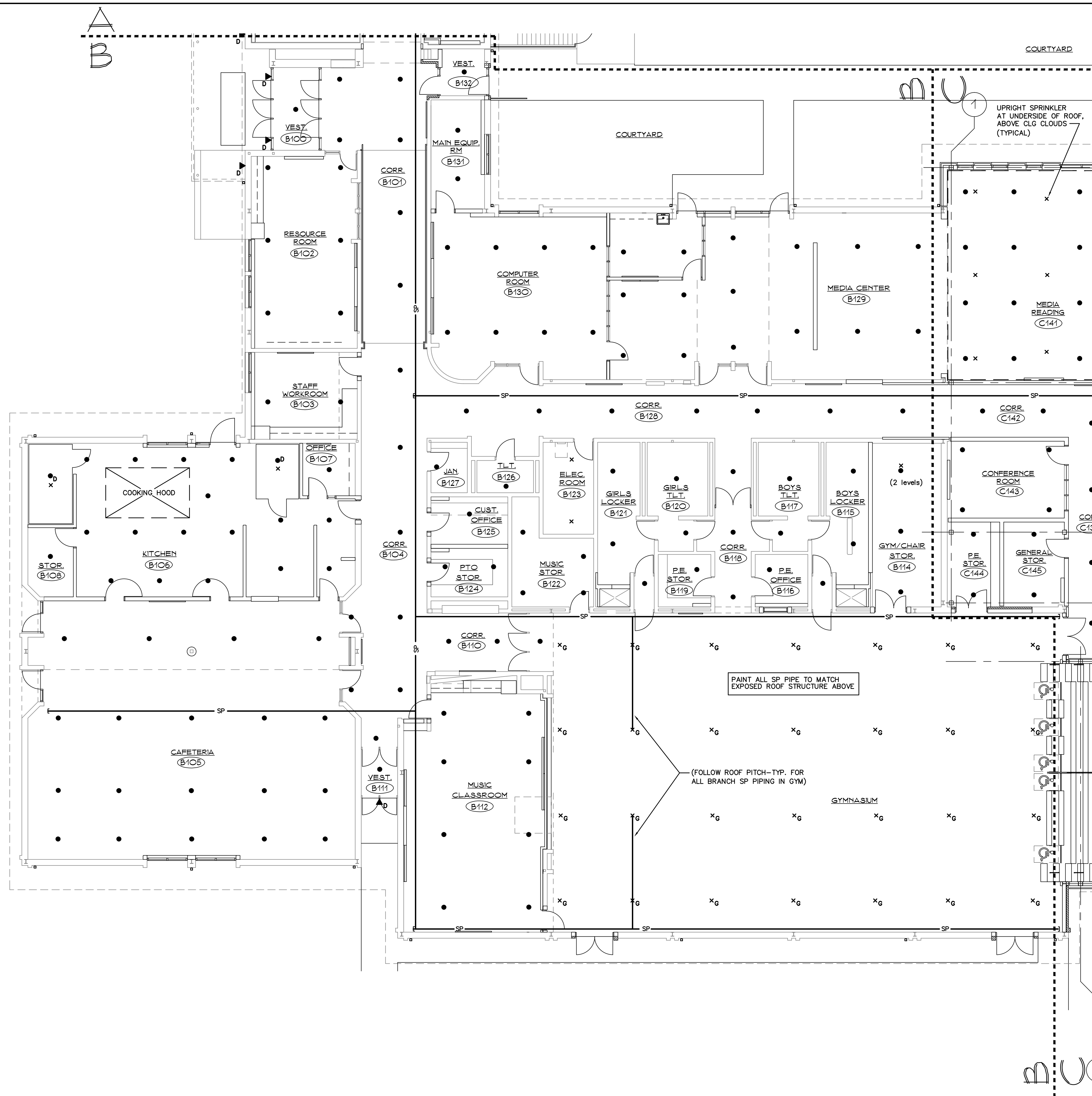
MBQ

Project Number:

12.140

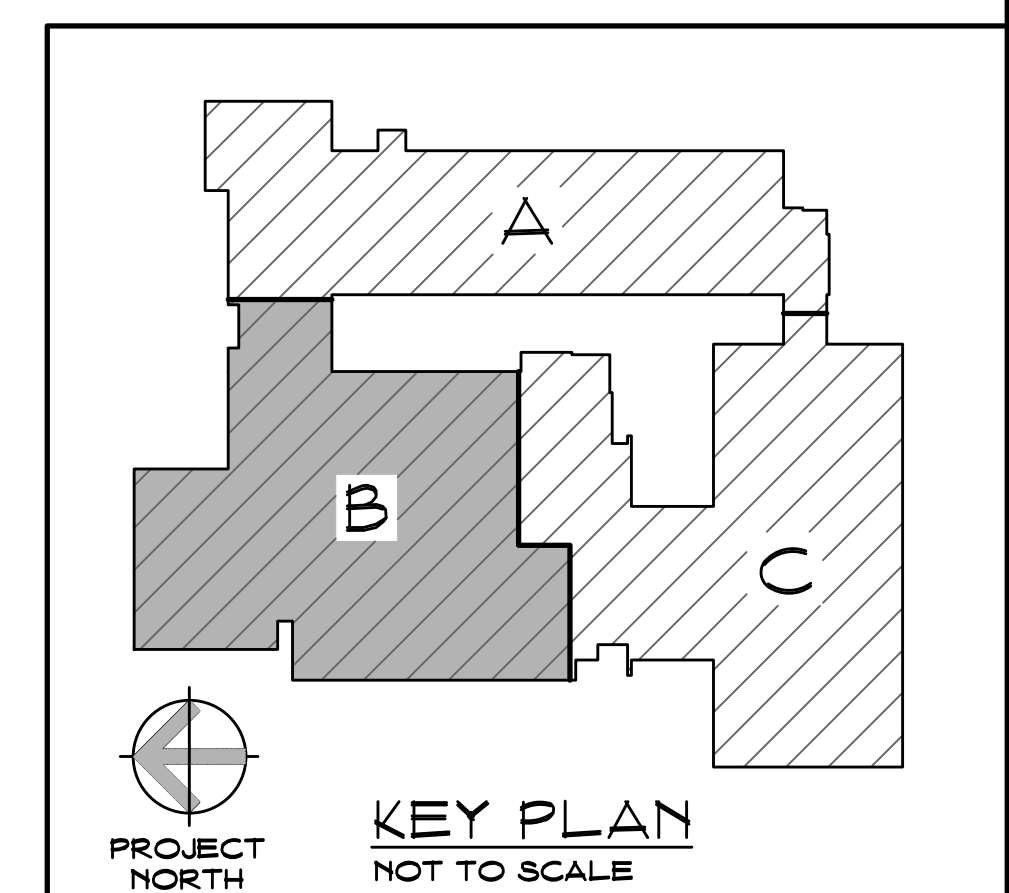
Drawing Number:

FP101

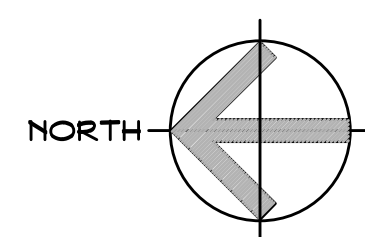
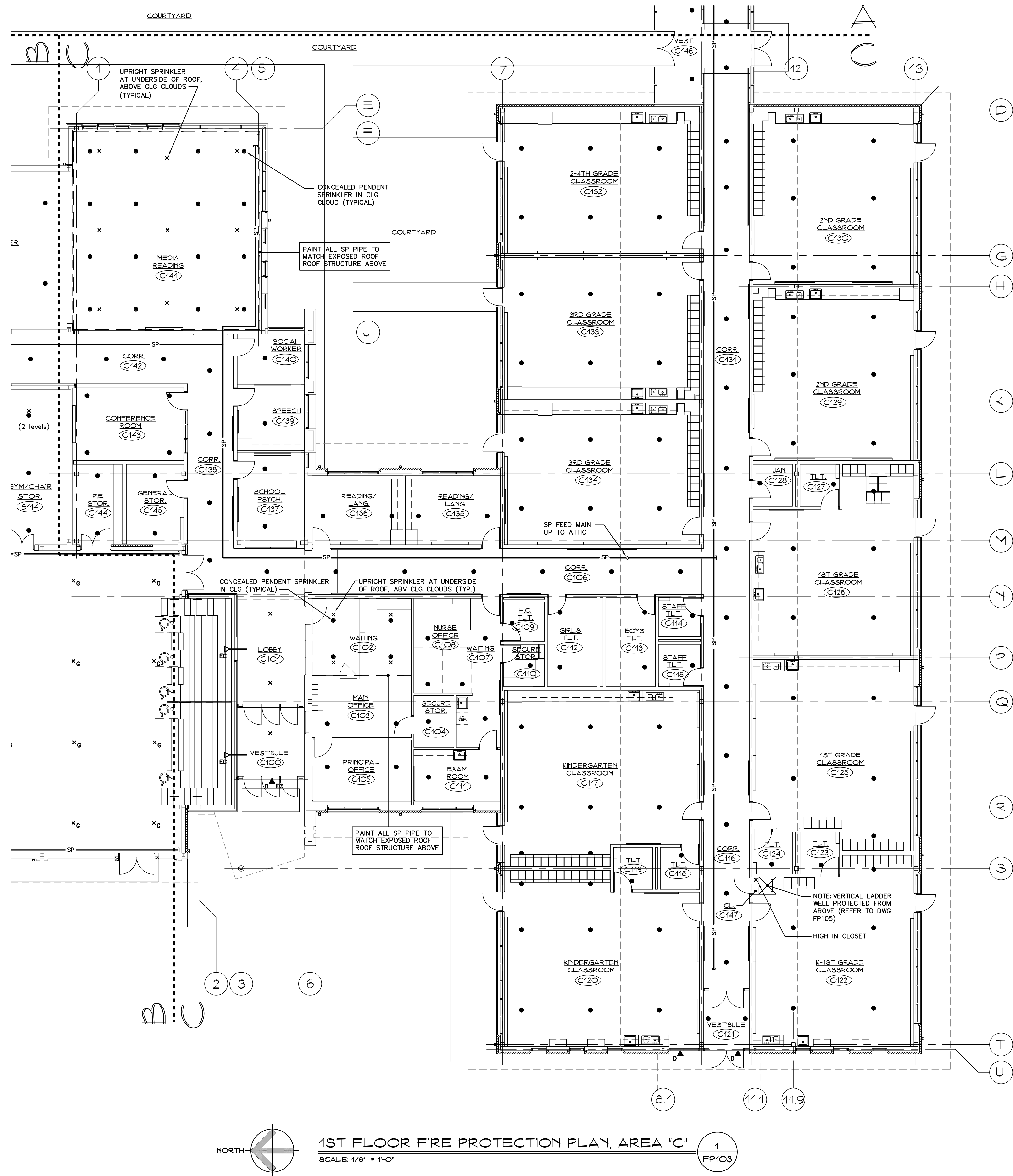


1ST FLOOR FIRE PROTECTION PLAN, AREA "B"
SCALE: 1/8" = 1'-0"

1
FP102

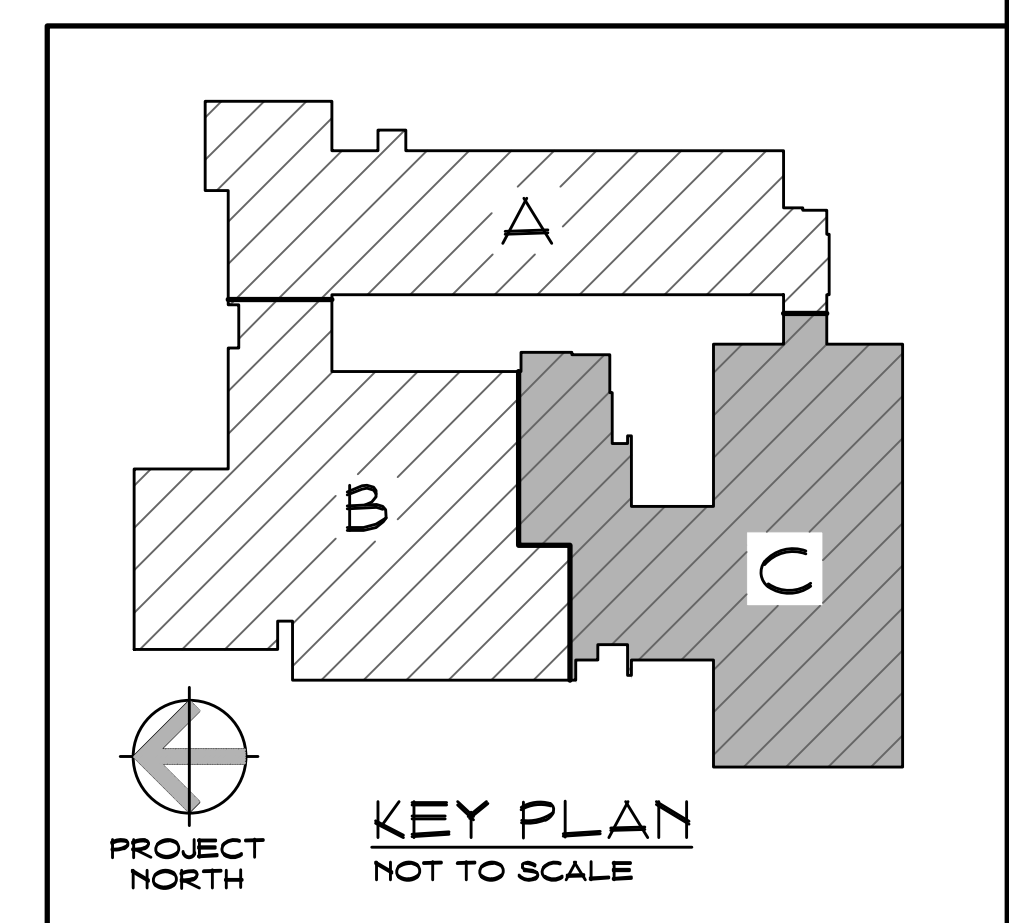


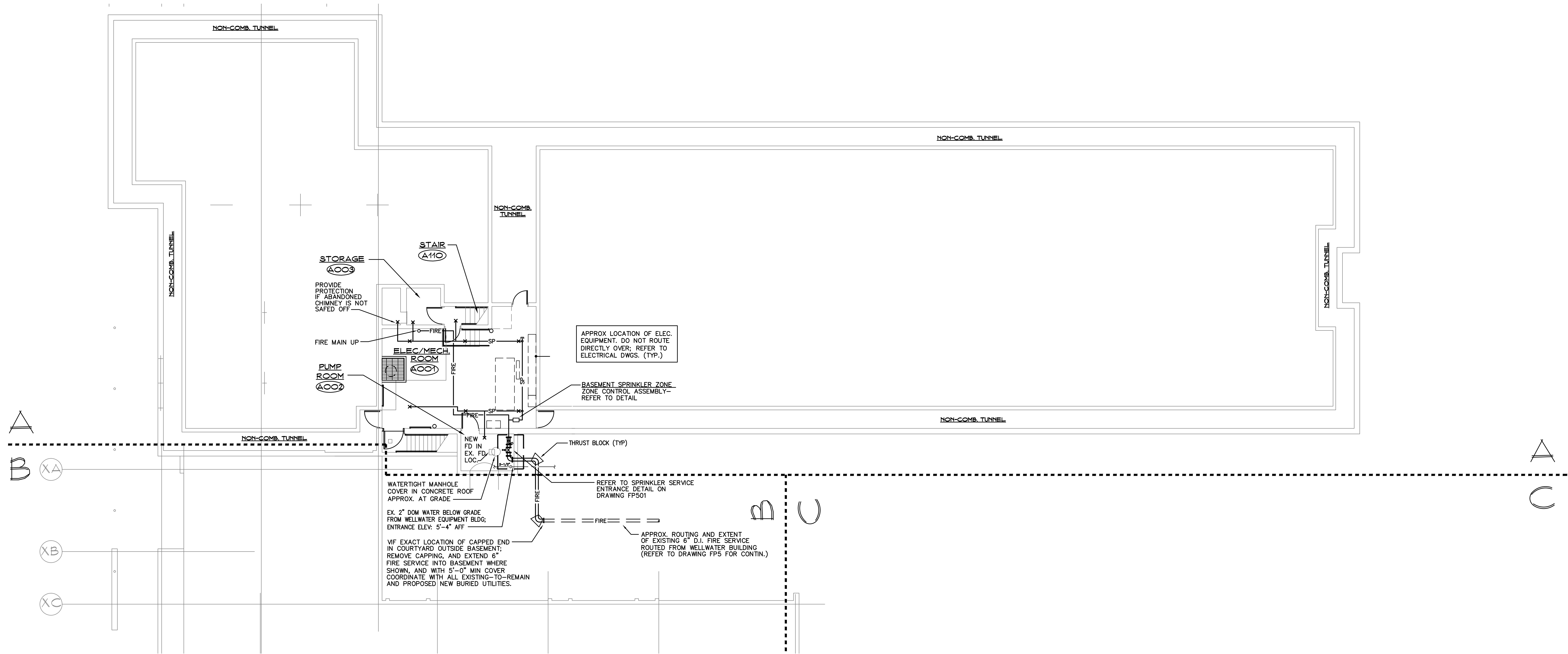
Revision:	Description:	Date:	Revised By:
--	ISSUED FOR BIDDING	NOV. 26, 2013	--



1ST FLOOR FIRE PROTECTION PLAN, AREA "C"
SCALE: 1/8" = 1'-0"

1
FP103





BASEMENT & TUNNEL FIRE PROTECTION PLAN
SCALE: 1/8" = 1'-0"

1
FP104

Project Title:

Expansion and Renovate as New Project - PHASE 1 of 3

Crystal Lake Elementary School

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Drawing Title:

**BASEMENT AND TUNNEL
FIRE PROTECTION PLAN**

State Project Number: 048-0058 EA/RR/PS

Date:

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AS NOTED

Drawn By:

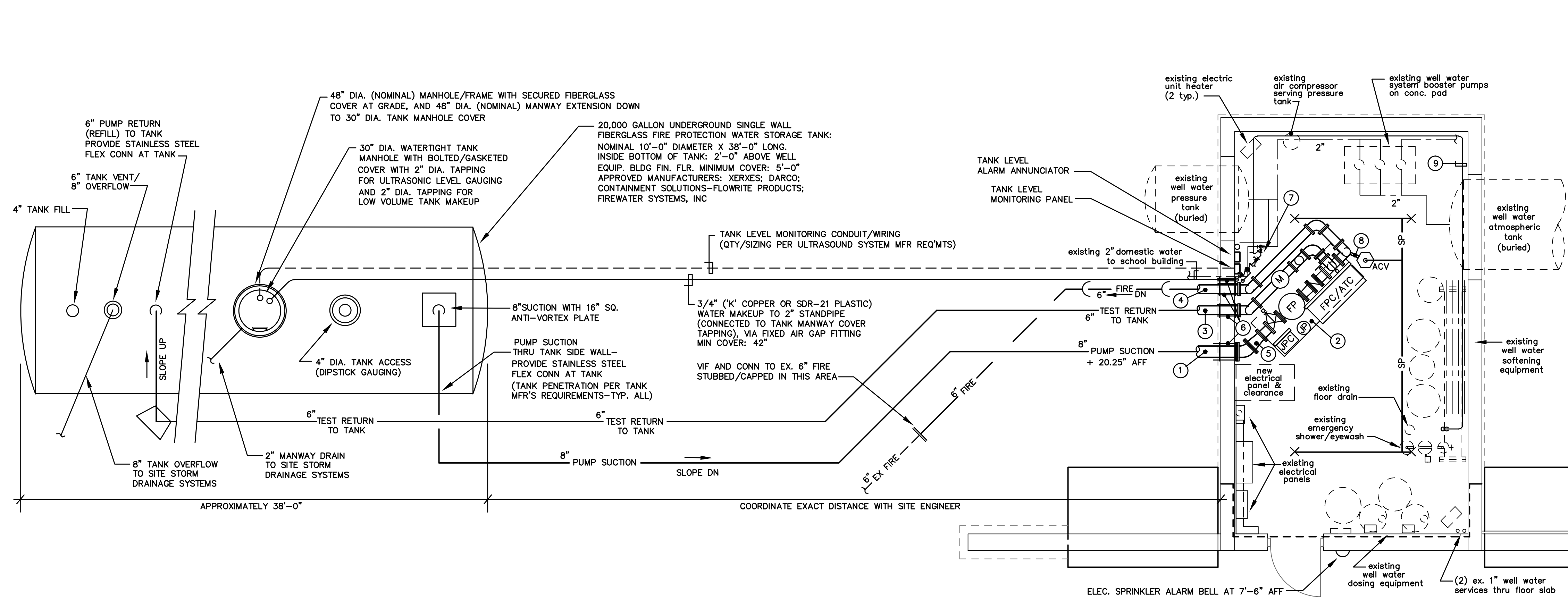
MBQ

Project Number:

12.140

Drawing Number:

FP104



NUMBERED NOTES - WELL EQUIPMENT BUILDING FIRE PROTECTION PLAN

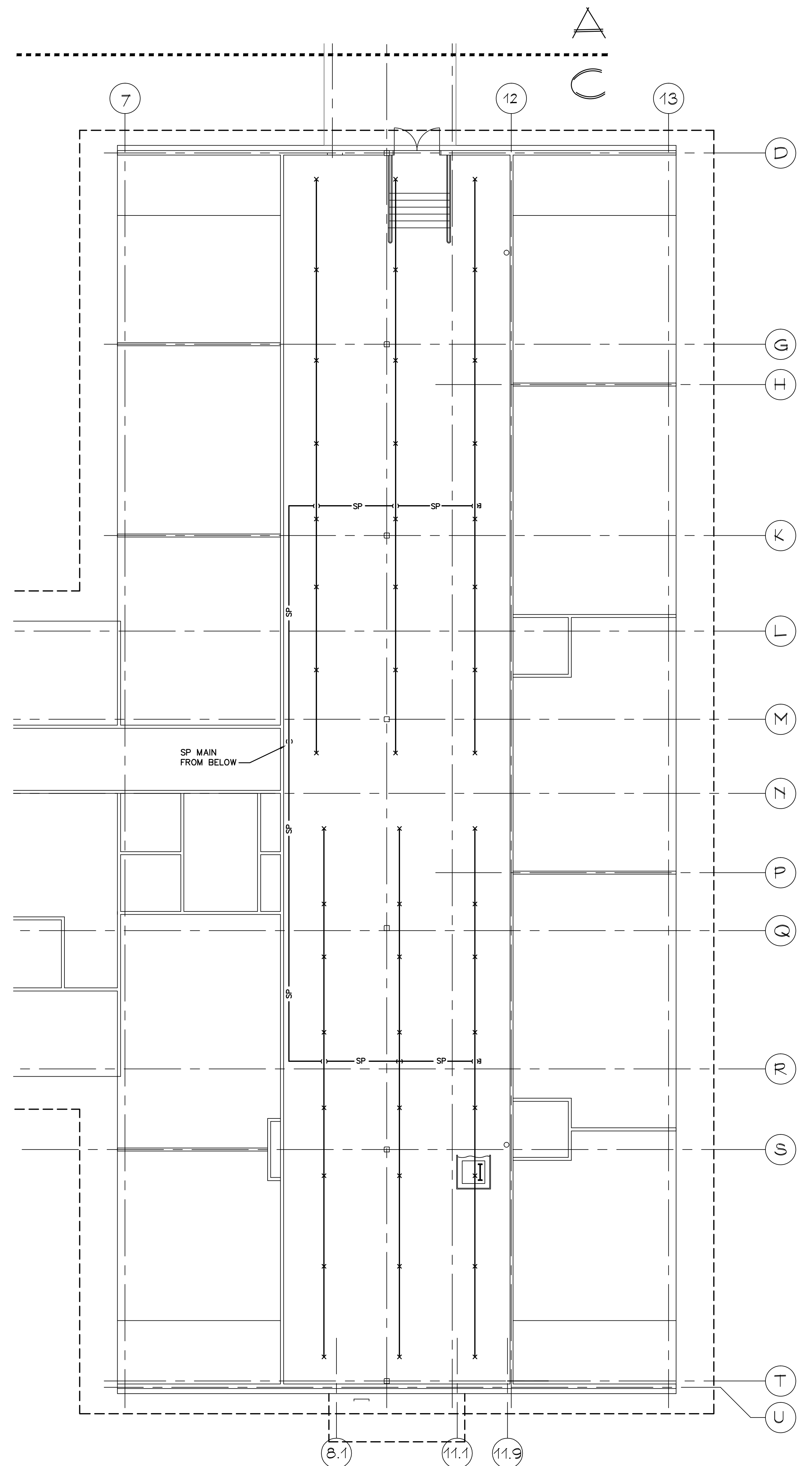
REFER TO FIRE PROTECTION DETAILS FOR SCHEMATIC PIPING DETAIL OF FIRE PUMP SYSTEM, AND STORAGE TANK DETAILS

- ① 8" SUCTON FROM UNDERGROUND FIRE WATER STORAGE TANK;
MINIMUM COVER: 5'-0"; ENTRY ELEVATION LEVEL WITH FIRE PUMP INLET ELEVATION (C.L. 1'-8 1/4" AFF)
- ② PRE-PIPED, PRE-PACKAGED FIRE PUMP SYSTEM ON METAL SKID; PACKAGE INCLUDES:
SYSTEM INLET AND DISCHARGE FLANGES; FIRE PUMP WITH SUPERVISED PUMP INLET
SHUTOFF AND OUTLET CHECK VALVES; JOCKEY PUMP IN PREPIPED BRANCH PIPING,
TEST HEADER TEE WITH SUPERVISED CONTROL VALVE; TEST HEADER (SHIPPED LOOSE
FOR FIELD INSTALLATION); FIRE PUMP CONTROLLER WITH AUTOMATIC TRANSFER SWITCH;
JOCKEY PUMP CONTROLLER, MOUNT ON FIELD-POURED 6" THICK CONCRETE PAD, 8" LARGER
THAN SKID LENGTH x WIDTH DIMENSIONS.
- NOTE: A FIELD FABRICATED FIRE PUMP SYSTEM MAY BE SUBMITTED WITH ACCOMPANYING
CREDIT OFFER AND PRELIMINARY LAYOUT DRAWING. THE PROPOSED SUBSTITUTION MUST
MEET SPECIFIED PERFORMANCE REQUIREMENTS AND CONFORM TO NFPA 20 IN ALL RESPECTS,
AND SYSTEM SPACE REQUIREMENTS MUST ALLOW ADEQUATE ACCESS TO ALL EXISTING AND
PROPOSED WELL BUILDING EQUIPMENT, FOR MAINTENANCE, ADJUSTMENT AND REPAIR.
- ③ 6" PUMP DISCHARGE TO BUILDING; MAINTAIN 5'-0" COVER MINIMUM; VIF EXACT LOCATION
OF EXISTING STUBBED 6" BURIED FIRE MAIN IN VICINITY OF WELL EQUIPMENT BUILDING, AND
CONNECT TO SAME, PROVIDING ALL REQUIRED TRANSITION FITTINGS. REFER TO FIRE PROTECTION
SITE PLAN FOR ROUTING SCHEMATIC. VIF ALL EXISTING ROUTING, AND ADJUST FINAL INSTALLATION
TO COORDINATE WITH FIELD VERIFIED EXISTING CONDITIONS.
- ④ 6" PUMP TEST HEADER TEE; 4" TEST PIPING TO FREE STANDING PUMP TEST HEADER, AND
TO FLOWMETER; FLOWMETER DISCHARGE SHALL BE TO FIRE WATER STORAGE TANK
- ⑤ 8X6 REDUCING ELBOW
- ⑥ SLEEVE/WATERPROOF THROUGH EXTERIOR WALL (TYPICAL)
PROVIDE LINK-SEAL AT UNDERGROUND WALL PENETRATIONS
- ⑦ TAP INTO EX. 2" DOMESTIC WATER TO BUILDING, ROUTING LOW; RISE TO CEILING AND PROVIDE
3/4" WATER MAKEUP WITH MANUAL SHUTOFF, SOLENOID CONTROL VALVE AND WATTS 009-QT-S
REDUCED PRESSURE ZONE BACKFLOW PREVENTER ASSEMBLY (HIGH); PIPE RPD RELIEF VIA
AIR GAP FITTING DOWN TO OPENEND 6" AFF; COORDINATING EXACT ROUTING AND TERMINATION
LOCATION WITH ALL EXISTING INSTALLATIONS AND NEW WORK OF ALL OTHER TRADES
- ⑧ CONNECT INTO 6" FIRE PUMP DISCHARGE TO BUILDING FP SYSTEMS AND PROVIDE SPRINKLER
PROTECTION FOR WELL EQUIPMENT BUILDING, HYDRAULICALLY SIZED; SUPERVISED CONTROL VALVE,
ALARM CHECK VALVE WITH MAIN TEST PIPED OVERHEAD TO DROP ON AND EXIT THRU WEST WALL,
FLOW SWITCH ON ACV DISCHARGE, AND ORDINARY HAZARD-GROUP 1 WET SPRINKLER SYSTEM
OF UPRIGHT SPRINKLERS, COORDINATED WITH ALL ETR AND NEW INSTALLATIONS.
- ⑨ AS MUCH AS PITCH AND EXISTING INSTALLATIONS ALLOW, ROUTE GRAVITY DRAINS ON WALLS TO
OPENEND NEAR EXISTING FLOOR DRAIN (DO NOT ROUTE UNDER ELECTRICAL PANELS)

WELL EQUIPMENT BUILDING AREA FIRE PROTECTION PLAN

SCALE: 1/4" = 1'-0"

2
FP105



ATTIC FIRE PROTECTION PLAN

SCALE: 1/8" = 1'-0"

1
FP105

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Expansion and Renovate as New Project - PHASE 1 of 3

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Drawing Title:

**ATTIC AND WELL
EQUIPMENT BLDG. AREA
FIRE PROTECTION PLANS**
State Project Number: 048-0058 EA/RR/PS

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Scale:

AS NOTED

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MBQ

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Drawing Number:

FP105

